### PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTH	ORITY	EINGA	NG/RECEIVED					
To:		21	Nov. 2005	PCT				
		Gewer	bl. Hechtsschutz/ ectual Proporty NA Pharma AG					
see form PCT/ISA/220	,		WRI	TTEN OPINION OF THE DNAL SEARCHING AUTHORITY				
			NATE INVESTIGATION	(PCT Rule 43 <i>bis</i> .1)				
				(1 01 Titule 45 <i>bis.1)</i>				
			Date of mailing					
			(day/month/year)	see form PCT/ISA/210 (second sheet)				
Applicant's or agent's file reference see form PCT/ISA/220			FOR FURTHER See paragraph 2 be					
International application No. PCT/EP2005/051211	International fil 16.03.2005	ling date (a	lay/month/year)	Priority date (day/month/year) 17.03.2004				
International Patent Classification (IPC) or t C07D491/14, A61K31/437	ooth national clas	ssification a	and IPC					
Applicant ALTANA PHARMA AG								
This opinion contains indication	no voletina te	dha falla						
	_	trie iolio	wing items:					
☐ Box No. I Basis of the opi☐ Box No. II Priority	nion							
	ent of online	with regard to novelty, inventive step and industrial applicability						
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☑ Box No. V Reasoned state								
☐ Box No. VI Certain docume								
☐ Box No. VII Certain defects	in the internati	onal appli	cation					
☐ Box No. VIII Certain observa	tions on the in	ternationa	ıl application	ĺ				
2. FURTHER ACTION								
If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.								
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.								
For further options, see Form PCT	/ISA/220.							
3. For further details, see notes to Fo	orm PCT/ISA/22	20.						
Name and mailing address of the ISA:			Authorized Officer					



European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465

Fink, D

Telephone No. +49 89 2399-8701



## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2005/051211

_		
	Box No. I Basis of	the opinion
1.	With regard to the lar the language in which	nguage, this opinion has been established on the basis of the international application in it was filed, unless otherwise indicated under this item.
	☐ This opinion has language , wh (under Rules 12.	been established on the basis of a translation from the original language into the following ich is the language of a translation furnished for the purposes of international search 3 and 23.1(b)).
2.	<ol><li>With regard to any nu necessary to the clair</li></ol>	icleotide and/or amino acid sequence disclosed in the international application and ned invention, this opinion has been established on the basis of:
	a. type of material:	
	□ a sequence lis	sting
	□ table(s) relate	d to the sequence listing
	b. format of material:	
	☐ in written form	at
	☐ in computer re	adable form
	c. time of filing/furnish	ing:
	contained in th	ne international application as filed.
•	☐ filed together v	with the international application in computer readable form.
	☐ furnished subs	sequently to this Authority for the purposes of search.
3.	has been filed or t	case that more than one version or copy of a sequence listing and/or table relating thereto urnished, the required statements that the information in the subsequent or additional to that in the application as filed or does not go beyond the application as filed, as furnished.
١.	. Additional comments:	

### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2005/051211

e questions whether the claimed	مردن لا							
ridady, or to be inductifully applied	The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:							
the entire international application,								
claims Nos. 1-8 (all partly), 9, 10 (partly), 11 (partly), 12, 13, 14 (partly), 15-19, 20 (partly), 21 (partly)								
ecause:								
the said international application, or the said claims Nos. 21 (as regards industrial applicability) relate to the following subject matter which does not require an international preliminary examination (specify):								
see separate sheet								
the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):								
the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.								
no international search report has been established for the whole application or for said claims Nos. 1-8 (all partly), 9, 10 (partly), 11 (partly), 12, 13, 14 (partly), 15-19, 20 (partly), 21 (partly)								
the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:								
the written form		has not been furnished						
		does not comply with the standard						
the computer readable form		has not been furnished						
		does not comply with the standard						
the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.								
See separate sheet for further of	detai	<b>is</b>						
	the entire international application claims Nos. 1-8 (all partly), 9, cause:  the said international application the following subject matter with the following subject matter with the description, claims or draw unclear that no meaningful oping the claims, or said claims Nos. could be formed.  no international search report in partly), 9, 10 (partly), 11 (partly) the nucleotide and/or amino acc C of the Administrative Instruction the written form  the computer readable form	the entire international application, claims Nos. 1-8 (all partly), 9, 10 (pause:  the said international application, or the following subject matter which or see separate sheet  the description, claims or drawings unclear that no meaningful opinion the claims, or said claims Nos. are could be formed.  no international search report has be partly), 9, 10 (partly), 11 (partly), 12 the nucleotide and/or amino acid see C of the Administrative Instructions the written form						

### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2005/051211

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_	Box No. I	V Lack of unity of In	ventic	on .	
1.	. 🖾 In res	ponse to the invitation	(Form	PCT/ISA/20	6) to pay additional fees, the applicant has:
		paid additional fees.			
		paid additional fees u	ınder p	orotest.	
	$\boxtimes$	not paid additional fe	es.		
2.	. 🗆 This A the ap	uthority found that the plicant to pay additiona	require al fees.	ement of un	ity of invention is not complied with and chose not to invite
3.	. This Autho	rity considers that the	require	ment of uni	ty of invention in accordance with Rule 13.1, 13.2 and 13.3 i
	☐ complie	d with			
	□ not com	plied with for the follow	ving re	asons:	
	see se	parate sheet			
4.	Consequer	ntly, this report has bee	n esta	blished in re	espect of the following parts of the international application:
	☐ all parts				
	★ the parts	s relating to claims Nos	s. 1-8 (	all partly), 1	0 (partly), 11 (partly), 14 (partly), 20 (partly), 21 (partly)
		:			
	Box No. V industrial a	Reasoned stateme	nt und	ier Rule 43 explanation	bis.1(a)(l) with regard to novelty, inventive step or as supporting such statement
1.	Statement				
	Novelty (N)		Yes:	Claims	1-8 (all partly), 10 (partly), 11 (partly), 14 (partly), 20 (partly), 21 (partly)
		÷	No:	Claims	
	Inventive st	ep (IS)	Yes:	Claims	
			No:	Claims	1-8, 10, 11, 14, 20, 21
	Industrial ap	oplicability (IA)	Yes:	Claims	1-8 (all partly), 10 (partly), 11 (partly), 14 (partly), 20 (partly)
			No:	Claims	
2.	Citations an	d explanations			

Form PCT/ISA/237 (January 2004)

see separate sheet



## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/EP2005/051211

Re Item III.

1. The present **claim 21** relates to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT.

Consequently, no opinion will be formulated with respect to industrial applicability of the subject-matter of this claim.

[ For the assessment of the aforesaid claim on the question whether it is industrially applicable, no unified criteria exist in the PCT. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but will allow, however, claims to a (known) compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.]

2. The present application was found to be *non-unitary* in the sense of Rule 13 PCT (see, the **item IV** below).

The search has therefore been limited to the first present invention, i.e. to the compounds of the present claim 1 wherein the group R2 is *hydroxy-3-4-C-alkenyl* or *hydroxy-3-4C-alkinyl*.

Accordingly, the Partial International Search Report (PISR) was only complete with respect to the present claims 1-8 (all partly), 10 (partly), 11 (partly), 14 (partly), 20 (partly) and 21 (partly).

As the PISR forms the basis of the present Written Opinion, the following statement on the patentability of the present subject-matter can only be regarded to be complete in respect of the said claims 1-8 (all partly), 10 (partly), 11 (partly), 14 (partly), 20 (partly) and 21 (partly).

In so far as the following letter refers to claims 1-8, 10, 11, 14, 20 and 21, it should only be taken to refer to the <u>searched</u> scope of these claims.

#### Re Item IV.

The present application lacks unity within the meaning of Rule 13 PCT for the following reasons:

The document WO-A-03/014123 (**D1**) - which represents the **closest prior art** - discloses (cf., pages 26-27, claim 1) i.a. 2,3-disubstituted 9-phenyl-7H-8,9-dihydro-pyrano[2,3-c]imidazo[1,2-a]pyridine-6-carboxylic acid amides which are said to have *gastric acid secretion-inhibitory* activity (cf., page 29, claim 8; and page 24, table A).

More specifically, **D1** teaches, for instance, the compound 2,3-Dimethyl-9-phenyl-7H-8,9-dihydro-pyrano[2,3-c]imidazo[1,2-a]pyridine-6-carboxylic acid dimethylamide (see, the example 3 on pages 13-14) which is excluded from the present **claims 1-3** by way of proviso.

In the light of **D1**, the **problem** underlying the present application resides in the provision of <u>further</u> (alternative) gastric acid secretion-inhibitors of the 9-phenyl-7H-8,9-dihydro-pyrano[2,3-c]imidazo[1,2-a]pyridine type.

Accordingly, the present application proposes the 3- and/or 6- substituted 9-Arom-7H-8,9-dihydro-pyrano[2,3-c]imidazo[1,2-a]pyridine derivatives of the present formula (1) in order to **solve** the given problem.

The only structural feature discernible, which is **shared by all** of the compounds of the formula (1) according to the present claim 1 is the

### 6-(R3)-9-Arom-7H-8,9-dihydro-pyrano[2,3-c]imidazo[1,2-a]pyridine

moiety (wherein R3 and Arom are as defined in the present claim 1).

The document **D1**, however, already describes such 6-substituted 9-phenyl-7H-8,9-dihydro-pyrano[2,3-c]imidazo[1,2-a]pyridine compounds (cf., for example, the 2,3-Di*methyl*-9-phenyl-7H-8,9-dihydro-pyrano[2,3-c]imidazo[1,2-a]pyridine-6-*carboxylic acid dimethylamide* of the example 3 of **D1**) *for the same use* as the compounds according to the present application.

As the only structural feature which is **common to all** of the present compounds (i.e. the 6-(R3)-9-Arom-7H-8,9-dihydro-pyrano[2,3-c]imidazo[1,2-a]pyridine moiety) is **not novel** (cf. **D1**), this structural feature cannot represent the "special technical feature" within the meaning of Rule 13.2 PCT.

The present application thus relates to different solutions to the given technical problem (i.e., the provision of <u>further</u> gastric acid secretion-inhibitors) which are not linked by a single general inventive concept as set forth in Article 13 PCT.

Hence the Search Division considers that the following 21 separate inventions or groups of inventions are not so linked as to form a single general inventive concept:

the compounds of the present claim 1 wherein the group R2 is hydroxy-3-4-C-alkenyl or hydroxy-3-4C-alkinyl (which differ from the compounds of D1 in that they have a 3-(hydroxy-3-4-C-alkenyl/alkinyl) group rather than a 3-(hydroxy-1-4C-alkyl) group (cf., claim 1 of D1));

- the compounds of the present claim 1 wherein the group R2 is *hydroxy* or *1-4C-alkoxy* (which differ from the compounds of **D1** in that they have a 3-oxy-substituent rather than a 3-(1-4C-alkyl) group (cf., claim 1 of **D1**));
- 3. the compounds of the present claim 1 wherein the group R2 is amino, mono- or di-1-4C-alkylamino, 1-4C-alkylcarbonylamino, 1-4C-alkoxy-carbonylamino, or 1-4C-alkoxy-1-4C-alkoxycarbonylamino (which differ from the compounds of D1 in that they have a 3-amino-substituent rather than a 3-(1-4C-alkyl) group (cf., claim 1 of D1));
- 4. the compounds of the present claim 1 wherein the group R2 is *carboxyl* (which differ from the compounds of **D1** in that they have a *3-carboxyl* group rather than a 3-(1-4C-alkoxycarbonyl) group (cf., claim 1 of **D1**));
- the compounds of the present claim 1 wherein the group R2 is **mono-** or **di-1-4C-alkylamino-1-4C-alkyl** (which differ from the compounds of **D1** in that they have a 3-(alkylamino-1-4-C-alkyl) group rather than a 3-(hydroxy-1-4C-alkyl) group (cf., claim 1 of **D1**));
- 6. the compounds of the present claim 1 wherein the group R2 is 1-4C-alkylcarbonyl, 2-4C-alkenylcarbonyl, or 2-4C-alkinylcarbonyl (which differ from the compounds of D1 in that they have a 3-acyl group rather than a 3-(1-4C-alkyl) group (cf., claim 1 of D1));
- 7. the compounds of the present claim 1 wherein the group R2 is the radical -CO-NR21R22 (which differ from the compounds of D1 in that they have a 3-carbamoyl group rather than a 3-(1-4C-alkoxycarbonyl) group (cf., claim 1 of D1));

- 8. the compounds of the present claim 1 wherein the group R2 is as defined in **D1**, and R3 is 1-4C-alkylcarbonyl (which differ from the compounds of **D1** in that they have a 6-(1-4C-alkylcarbonyl) group rather than a 6-(1-4C-alkoxycarbonyl) group (cf., claim 1 of **D1**));
- 9. the compounds of the present claim 1 wherein the group R2 is as defined in **D1**, and R3 is *cyano* (which differ from the compounds of **D1** in that they have a 6-cyano group rather than a 6-carbamoyl group (cf., claim 1 of **D1**));
- 10. the compounds of the present claim 1 wherein the group R2 is as defined in **D1**, and R3 is the radical -CO-NR31R32 wherein R31 is amino (which differ from the compounds of **D1** in that they have a 6-hydrazinocarbonyl group rather than a 6-carbamoyl group (cf., claim 1 of **D1**));
- the compounds of the present claim 1 wherein the group R2 is as defined in **D1**, and R3 is the radical -CO-NR31R32 wherein R31 is hydroxy or 1-4C-alkoxy (which differ from the compounds of **D1** in that they have a 6-(N-(hydroxy / 1-4C-alkoxy)carbamoyl) group rather than a 6-carbamoyl group (cf., claim 1 of **D1**));
- the compounds of the present claim 1 wherein the group R2 is as defined in **D1**, and R3 is the radical *-CO-NR31R32* wherein R31 is *3-7C-cycloalkyl* (which differ from the compounds of **D1** in that they have a 6-(N-(*3-7C-cycloalkyl*)carbamoyl) group rather than a 6-(N-(*1-7C-alkyl*)carbamoyl) group (cf., claim 1 of **D1**));
- 13. the compounds of the present claim 1 wherein the group R2 is as defined in **D1**, and R3 is the radical *-CO-NR31R32* wherein R31 is *1-4C-alkylsulfonyl*, arylsulfonyl, or aryl-1-4C-alkylsulfonyl (which differ from the compounds of **D1** in that they have a 6-(sulfonylaminocarbonyl group rather than a 6-carbamoyl group

(cf., claim 1 of **D1**));

- the compounds of the present claim 1 wherein the group R2 is as defined in **D1**, and R3 is the radical *-CO-NR31R32* wherein R31 is *aryl* (which differ from the compounds of **D1** in that they have a 6-(N-(*aryl*)carbamoyl) group rather than a 6-(N-(*1-7C-alkyl*)carbamoyl) group (cf., claim 1 of **D1**));
- the compounds of the present claim 1 wherein the group R2 is as defined in D1, and R3 is the radical -CO-NR31R32 wherein R31 and R32 together and including the nitrogen atom to which they are attached form a pyrrolidino, piperidino, or morpholino radical which is substituted by R33, R34, and R35 where at least one of the substituents R33, R34, or R35 has to be different from hydrogen (which differ from the compounds of D1 in that they have a 6-((substituted pyrrolidino/piperidino/morpholino)carbonyl) group rather than a 6-((unsubstituted pyrrolidino/piperidino/morpholino) carbonyl) group (cf., claim 1 of D1));
- 16. the compounds of the present claim 1 wherein the group R2 is as defined in **D1**, and R3 is the radical *-CO-NR31R32* wherein R31 and R32 together and including the nitrogen atom to which they are attached form a *piperazino* radical (which differ from the compounds of **D1** in that they have a 6-(*piperazino*carbonyl) group rather than a 6-(*morpholino*carbonyl) group (cf., claim 1 of **D1**));
- 17. the compounds of the present claim 1 wherein the group R2 is as defined in **D1**, and R3 is the radical **-CO-NR31R32** wherein R31 and R32 together and including the nitrogen atom to which they are attached form a **aziridino** or **azetidino** radical (which differ from the compounds of **D1** in that they have a 6-((aziridino/azetidino)carbonyl) group rather than a 6-((pyrrolidino)carbonyl) group (cf., claim 1 of **D1**));

- the compounds of the present claim 1 wherein the group R2 is as defined in **D1**, and R3 is the radical -SO<sub>2</sub>-NR31R32 (which differ from the compounds of **D1** in that they have a 6-sulfamoyl group rather than a 6-carbamoyl group (cf., claim 1 of **D1**));
- the compounds of the present claim 1 wherein the group R2 is as defined in **D1**, and R3 is the radical *-CS-NR31R32* (which differ from the compounds of **D1** in that they have a 6-thiocarbamoyl group rather than a 6-carbamoyl group (cf., claim 1 of **D1**));
- 20. the compounds of the present claim 1 wherein the group R2 is as defined in D1, and R3 is the radical -C=N(OH)-NR31R32 (which differ from the compounds of D1 in that they have a 6-(N-hydroxyamidino) group rather than a 6-carbamoyl group (cf., claim 1 of D1));
- the compounds of the present claim 1 wherein the group R2 is as defined in **D1**, and R3 is the group *Het* (which differ from the compounds of **D1** in that they have a 6-(5-membered N-containing heterocycyl) group rather than a 6-carbamoyl group (cf., claim 1 of **D1**));

(The different inventions / groups of inventions were formulated in the order chosen by the Applicant). The separate inventions/groups of inventions are:

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

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Re Item V.

The following documents (D) are considered to be relevant:

D3: ..... Journal of Medicinal Chemistry 28(7), 876-892 (1985);

### 1. NOVELTY (Article 33(2) PCT):

The present application satisfies the criterion set forth in Article 33(2) PCT because the subject-matter of **claims 1-8**, **10**, **11**, **14**, **20** and **21** is new in respect of prior art as defined in the regulations (Rule 64(1)-(3) PCT):

The 7H-8,9-dihydro-pyrano[2,3-c]imidazo[1,2-a]pyridine derivatives of the present independent **claim 1** are novel over the 7H-8,9-dihydro-pyrano[2,3-c]imidazo[1,2-a]pyridine compounds of **D1** on account of the present **proviso** (which excludes the compounds of claim 1 of **D1**).

They are furthermore novel over **D2** (cf., claim 1 therein) on account of the present substituent group **R3** (the present 7H-8,9-dihydro-pyrano[2,3-c]imidazo[1,2-a]pyridine derivatives have to be **substituted** at the **6-position** whereas **D2** relates to 6-unsubstituted 7H-8,9-dihydro-pyrano[2,3-c]imidazo[1,2-a]pyridine compounds).

The prior art **D3** teaches (cf., the compounds of table IV) imidazo[1,2-a]pyridine derivatives. The present **7H-8,9-dihydro-pyrano[2,3-c]** imidazo[1,2-a]pyridine are thus also novel over **D3**.

### 2. INVENTIVE STEP (Article 33(3) PCT):

The present application does not satisfy the criterion set forth in Article 33(3) PCT because the subject-matter of **claims 1-8, 10, 11, 14, 20** and **21** does not appear to involve an inventive step (Rule 65(1)(2) PCT):

Document **D1** - which is considered to represent the **closest prior art** teaches (cf., claim 1 therein) i.a. 2,3,6-trisubstituted 9-phenyl-7H-8,9-dihydro-pyrano[2,3-c]imidazo[1,2-a]pyridine derivatives which are said to have *gastric acid secretion-inhibitory* activity (cf., claim 8 and page 24, table A).

More specifically, **D1** teaches, for instance, the compound *2,3-Dimethyl-*9-phenyl-7H-8,9-dihydro-pyrano[2,3-c]imidazo[1,2-a]pyridine-*6-carboxylic acid dimethylamide* (see, the example 3).

The compounds of claim 1 of **D1** are excluded from the present **claim 1** by the present proviso.

In the light of **D1**, the **problem** underlying the present application resides in the provision of <u>further</u> (alternative) *gastric acid secretion-inhibitors* of the 7H-8,9-dihydro-pyrano[2,3-c]imidazo[1,2-a]pyridine type.

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Accordingly, the present application proposes the 3-(hydroxy-3-4C-alkenyl / hydroxy-3-4C-alkynyl)-7H-8,9-dihydro-pyrano[2,3-c]imidazo[1,2-a]pyridine derivatives according to the present **claim 1** in order to **solve** the given problem.

This solution cannot, however, be considered to involve an inventive step (Article 33(3) PCT) for the following reasons:

As the document D1 already teaches the gastric acid secretion-inhibitory activity of

- (i) 3-(1-4C-alkyl)-7H-8,9-dihydro-pyrano[2,3-c]imidazo[1,2-a]pyridine and
- (ii) 3-(2-4C-alkenyl / 2-4C-alkynyl)-7H-8,9-dihydro-pyrano[2,3-c]imidazo[1,2-a]pyridine derivatives, on the one hand, and
- (iii) 3-(*hydroxy-1-4C-alkyl*)-7H-8,9-dihydro-pyrano[2,3-c]imidazo[1,2-a]pyridine derivatives (cf., the definition of the substituent group R2), on the other hand,

it is considered that the person skilled in the art would have expected that the corresponding 3-(*hydroxy-2-4C-alkenyl / 2-4C-alkynyl*)-7H-8,9-dihydro-pyrano[2,3-c]imidazo[1,2-a]pyridine derivatives would also possess (some) *gastric acid secretion-inhibitory* activity.

It is therefore considered that the present solution (i.e., the 3-(hydroxy-3-4C-alkenyl / hydroxy-3-4C-alkynyl)-7H-8,9-dihydro-pyrano[2,3-c]imidazo[1,2-a]pyridine derivatives according to the present claims 1-8, 10, 11 and 14) has to be regarded to be obvious in the light of the teaching of D1.

Consequently, in the absence of any unexpected / surprising effect, the subject-matter of the present claims 1-8, 10, 11, 14, 20 and 21 cannot be regarded to involve an inventive step as set forth in Article 33(3) PCT.

### 3. INDUSTRIAL APPLICABILITY (Article 33(4) PCT):

The subject-matter of the present claims 1-8, 10, 11, 14 and 20 concerns chemical compounds and a pharmaceutical composition and is therefore considered to be industrial applicable in the sense of Article 33(4) PCT.

#### 4. MISCELLANEOUS:

The citation of the prior art **D3** on page 1, lines 13-14 should have (also) included a reference to the *gastric antisecretory* properties of the said imidazopyridine compounds of **D3**.